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MORRIS MANNING MARTIN LLP 3343 PEACHTREE ROAD, NE			KOSOWSKI, ALEXANDER J	
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ATLANTA, GA 30326			2125	

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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/729,532	RODGERS, MARK E.
		Examiner	Art Unit
		Alexander J. Kosowski	2125
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
A SH WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on 8/17/ This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		
5)☐ 6)⊠ 7)☐ 8)☐ <b>Applicati</b> 9)☐ 10)☐	Claim(s) 1-15 and 75-77 is/are pending in the address of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-15 and 75-77 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or decla	vn from consideration.  r election requirement.  r.  epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
12)[] <sub>a</sub> )[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior application from the International Bureausee the attached detailed Office action for a list of the priority documents.	s have been received. s have been received in Application ity documents have been receive i (PCT Rule 17.2(a)).	on No d in this National Stage
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te

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## **DETAILED ACTION**

1) Claims 1-15 and 75-77 are presented for examination in light of the response filed 08/17/06.

## Claim Rejections - 35 USC § 103

- 2) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3) Claims 1-15 and 75-77 are rejected under 35 U.S.C. 103(a) as being unpatentable by Horst et al (U.S. PGPUB 2003/0233201), further in view of Mason, JR. et al (U.S. PGPUB 2004/0113810).

Referring to claim 1, Horst teaches a method for energy management comprising: receiving energy rating data at an on-premise processor transmitted by a distribution network from a host processor and storing the energy rating data in a memory, the rating data including a schedule pertaining to time and energy costs (Paragraphs 0030 and 0038 and 0043, whereby energy providers may send pricing schedules to a community controller), receiving at the on-premise processor a message from a power load controller requesting energy rating data and retrieving the energy rating data from the memory and sending a response message including the energy rating data from the on-premise processor to the power load controller (Paragraphs 0039 and 0043 and 0058 and 0068, whereby pricing structures are communicated to and stored by the controller, and the controller may communicate with a community controller); and determining in the power load controller whether to generate an activation signal based at least in part on the

energy rating data (Paragraphs 0049-0054 and 0057 and 0060, whereby connected appliances may be activated or deactivated based on pricing information). In addition, Horst teaches that wireless signals may allow access to the system from remote locations (Paragraphs 0061-0062). However, Horst does not explicitly teach that messages are communicated using a wireless communication link, the wireless communication link relaying the message through at least one other power load controller.

Mason teaches an energy management system comprising groups of intelligent power meters located at various sites which communicate wirelessly not only with a remote host utility company but also with other local meters, and have the ability to transmit data and messages wirelessly between themselves or through each other to reach the remote host utility company (Paragraphs 0008 and 0024 and Figure 1).

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to communicate messages wirelessly by relaying the messages through at least one other power load controller in the invention taught by Horst above since this would allow the use of lower-cost controllers which do not all have to communicate directly with a utility's central server (Mason, Paragraphs 0005-0006).

Referring to claim 2, Horst teaches that the activation signal activates a power load (Paragraph 0037).

Referring to claim 3, Horst teaches that the activation signal may activate a power generator (Paragraph 0048).

Referring to claims 4-5, Horst teaches that the energy rating data further comprises a first time period associated with a first usage rate and a second time period associated with a second

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usage rate (Paragraphs 0038 and 0043, whereby rate schedules and pricing structures are sent) and that the power load controller determines whether to activate the power load based further at least in part on the current time (Paragraphs 0059-0060).

Referring to claims 6-7, Horst teaches the above. However, Horst does not explicitly teach that the distribution network transmits the rating data wirelessly using an 802.15.4-based communications link.

Mason teaches an energy management system comprising groups of intelligent power meters located at various sites which communicate wirelessly not only with a remote host utility company but also with other local meters, and have the ability to transmit data and messages wirelessly between themselves or through each other to reach the remote host utility company utilizing 802.11 protocols (Paragraphs 0008 and 0024 and Figure 1).

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to transmit the rating data wirelessly using an 802.15.4-based communications link in the invention taught by Horst above since a wireless transceiver allows communication between an electronic controller and a computer, and since 802.11 is a well known alternative to several types of networking protocols (Mason, Paragraph 0008).

Referring to claim 8, Horst teaches a method for energy management, comprising: sending an energy rate request message from an appliance and receiving an energy rate schedule at the appliance utilizing a communication link (Paragraphs 0030 and 0038 and 0043, whereby energy providers may send pricing schedules to a community controller), receiving an energy rate schedule at the appliance, the energy rate schedule comprising a first time period for a first usage rate and a second time period for a second usage rate (Paragraphs 0039 and 0043 and 0058).

and 0068, whereby pricing structures are communicated to and stored by the controller, and the controller may communicate with a community controller) and determining in the appliance whether to activate a power load based in part on the energy rate schedule (Paragraphs 0049-0054 and 0057 and 0060, whereby connected appliances may be activated or deactivated based on pricing information). In addition, Horst teaches that wireless signals may allow access to the system from remote locations (Paragraphs 0061-0062). However, Horst does not explicitly teach that the request message is communicated using a wireless communication link, the wireless communication link relaying the message through at least one other appliance.

Mason teaches an energy management system comprising groups of intelligent power meters located at various sites which communicate wirelessly not only with a remote host utility company but also with other local meters, and have the ability to transmit data and messages wirelessly between themselves or through each other to reach the remote host utility company (Paragraphs 0008 and 0024 and Figure 1).

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to communicate messages wirelessly by relaying the messages through at least one other appliance in the invention taught by Horst above since this would allow the use of lower-cost controllers which do not all have to communicate directly with a utility's central server (Mason, Paragraphs 0005-0006).

Referring to claim 9, Horst teaches storing the energy rate schedule in a memory in the appliance (Paragraph 0043, whereby the controller inherently utilizes memory to store data).

Referring to claim 10, Horst teaches a method for energy management comprising: receiving at an on-premise processor a first request from a power load controller pertaining to

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energy rating data, sending from the on-premise processor a second request message over a distribution network to the host processor, the second request message pertaining to energy rating data (Paragraphs 0030 and 0038 and 0043, whereby energy providers may send pricing schedules to a community controller) and receiving at the on-premise processor a first rating response message over the distribution network from the host processor, the first rating response message including energy rating data and sending from the on-premise processor to the power load controller a second rating response message, the second rating response message including the energy rating data (Paragraphs 0039 and 0043 and 0058 and 0068, whereby pricing structures are communicated to and stored by the controller, and the controller may communicate with a community controller) and determining in the power load controller whether to generate an activation signal based at least in part on the energy rating data (Paragraphs 0049-0054 and 0057 and 0060, whereby connected appliances may be activated or deactivated based on pricing information). In addition, Horst teaches that wireless signals may allow access to the system from remote locations (Paragraphs 0061-0062). However, Horst does not explicitly teach that messages are communicated using a wireless communication link, the wireless communication link relaying messages through at least one other power load controller.

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Mason teaches an energy management system comprising groups of intelligent power meters located at various sites which communicate wirelessly not only with a remote host utility company but also with other local meters, and have the ability to transmit data and messages wirelessly between themselves or through each other to reach the remote host utility company (Paragraphs 0008 and 0024 and Figure 1).

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Therefore, it would have been obvious to one skilled in the art at the time the invention was made to communicate messages wirelessly by relaying the messages through at least one other power load controller in the invention taught by Horst above since this would allow the use of lower-cost controllers which do not all have to communicate directly with a utility's central server (Mason, Paragraphs 0005-0006).

Referring to claims 11-12, see rejection of claims 2-3 above.

Referring to claims 13-14, see rejection of claims 4-5 above.

Referring to claim 15, Horst teaches that the power load activated is an air conditioning or heating load (Paragraph 0037).

Referring to claims 75-77, see rejection of claim 7 above.

## Response to Arguments

4) Applicants arguments are moot in view of the new rejection above, necessitated by amendment.

## Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

6) The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Gardner (U.S. Pat 6,891,478) – teaches a method for controlling appliances.

Davis et al (U.S. Pat 6,671,586) – teaches controlling power demand over a wireless

network.

7) Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexander J Kosowski whose telephone number is 571-272-3744.

The examiner can normally be reached on Monday through Friday, alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Leo Picard can be reached on 571-272-3749. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300. In addition, the

examiner's RightFAX number is 571-273-3744.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 571-272-2100.

L-P.C

Alexander J. Kosowski

Patent Examiner

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LEO PICARD SUPERVISORY PATENT EXAMINER

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